

## IN THE CLAIMS

Please cancel claims 1-6, 10, 15-20, 24, 29-36, 38, 39, 42, 45 and 46.

Please amend the claims as follows.

1 1-6 (Cancelled)

1 7. (Currently Amended) An apparatus comprising:

2 at least one processor;

3 a memory coupled to the at least one processor;

4 a plurality of logical partitions defined on the apparatus;

5 a persistent resource database residing in the memory, the resource database

6 including a list of resources owned by each of the plurality of logical partitions, where the

7 resources were detected in previous power on cycles of the apparatus; and

8 a resource detection mechanism residing in the memory and executed by the at

9 least one processor, the resource detection mechanism determining from the resource

10 database a set of required resources owned by a selected logical partition, detecting each

11 resource as the resource is initialized, detecting when at least one required resource for

12 the selected logical partition is not powered up, initiating power up of the at least one

13 required resource that is not powered up, and starting the selected logical partition when

14 all required resources owned by the selected logical partition have been detected.

1 8. (Original) The apparatus of claim 7 wherein the resources include at least one

2 hardware resource.

1 9. (Original) The apparatus of claim 7 wherein the resources include at least one

2 software resource.

1 10. (Cancelled)

- 1 11. (Original) The apparatus of claim 7 wherein the resource detection mechanism
- 2 initiates power off of a plurality of resources owned by the selected logical partition in
- 3 response to the selected logical partition being powered off.

1 12. (Original) An apparatus comprising:  
2 at least one processor;  
3 a memory coupled to the at least one processor;  
4 a plurality of logical partitions defined on the apparatus;  
5 a persistent resource database residing in the memory, the resource database  
6 including a list of resources owned by each of the plurality of logical partitions, where the  
7 resources were detected in previous power on cycles of the apparatus; and  
8 a resource detection mechanism residing in the memory and executed by the at  
9 least one processor, the resource detection mechanism determining from the resource  
10 database a set of required resources owned by a selected logical partition, detecting each  
11 resource as the resource is initialized, and starting the selected logical partition when all  
12 required resources owned by the selected logical partition have been detected, the  
13 resource detection mechanism further detecting when at least one required resource for a  
14 selected logical partition is not powered up and initiating power up of the at least one  
15 required resource that is not powered up, the resource detection mechanism initiating  
16 power off of a plurality of resources owned by the selected logical partition in response to  
17 the selected logical partition being powered off.

1 13. (Original) The apparatus of claim 12 wherein the resources include at least one  
2 hardware resource.

1 14. (Original) The apparatus of claim 12 wherein the resources include at least one  
2 software resource.

1 15-20 (Cancelled)

1 21. (Currently Amended) A computer-implemented method for initializing a computer  
2 system that includes a plurality of logical partitions, the method comprising the steps of:  
3 storing in a persistent resource database a list of resources owned by each of the  
4 plurality of logical partitions during previous power on cycles of the computer system;  
5 determining from the resource database a set of required resources owned by a  
6 selected logical partition;  
7 detecting each resource as the resource is initialized;  
8 detecting when at least one required resource for a selected logical partition is not  
9 powered up;  
10 initiating power up of the at least one required resource that is not powered up;  
11 and  
12 starting the selected logical partition when all required resources owned by the  
13 selected logical partition have been detected.

1 22. (Original) The method of claim 21 wherein the resources include a hardware  
2 resource.

1 23. (Original) The method of claim 21 wherein the resources include a software  
2 resource.

1 24. (Cancelled)

1 25. (Original) The method of claim 21 further comprising the step of initiating power off  
2 of a plurality of resources owned by the selected logical partition in response to the  
3 selected logical partition being powered off.

1 26. (Original) A computer-implemented method for initializing a computer system that  
2 includes a plurality of logical partitions, the method comprising the steps of:  
3 storing in a persistent resource database a list of resources owned by each of the  
4 plurality of logical partitions during previous power on cycles of the computer system;  
5 determining from the resource database a set of required resources owned by a  
6 selected logical partition;  
7 detecting each resource as the resource is initialized;  
8 starting the selected logical partition when all required resources owned by the  
9 selected logical partition have been detected;  
10 detecting when at least one required resource for a selected logical partition is not  
11 powered up;  
12 initiating power up of the at least one required resource that is not powered up;  
13 and  
14 initiating power off of a plurality of resources owned by the selected logical  
15 partition in response to the selected logical partition being powered off.

1 27. (Original) The method of claim 26 wherein the resources include a hardware  
2 resource.

1 28. (Original) The method of claim 26 wherein the resources include a software  
2 resource.

1 29-36 (Cancelled)

1 37. (Currently Amended) A program product comprising:  
2 (A) a resource detection mechanism that determines from a persistent resource  
3 database in a computer system that includes a plurality of logical partition a set of  
4 required resources owned by a selected logical partition, the resource detection  
5 mechanism detecting each resource as the resource is initialized and starting the selected  
6 logical partition when all required resources owned by the selected logical partition have  
7 been detected, wherein the resource detection mechanism detects when at least one  
8 required resource for the selected logical partition is not powered up, and initiates power  
9 up of the at least one required resource that is not powered up; and  
10 (B) recordable computer readable signal bearing media bearing the resource  
11 detection mechanism.

1 38. (Cancelled)

1 39. (Cancelled)

1 40. (Original) The program product of claim 37 wherein the resources include at least  
2 one hardware resource.

1 41. (Original) The program product of claim 37 wherein the resources include at least  
2 one software resource.

1 42. (Cancelled)

1 43. (Original) The program product of claim 37 wherein the resource detection  
2 mechanism initiates power off of a plurality of resources owned by the selected logical  
3 partition in response to the selected logical partition being powered off.

1 44. (Currently Amended) A program product comprising:  
2 (A) a resource detection mechanism that determines from a resource database in a  
3 computer system that includes a plurality of logical partitions a set of required resources  
4 owned by a selected logical partition, the resource detection mechanism detecting each  
5 resource as the resource is initialized and starting the selected logical partition when all  
6 required resources owned by the selected logical partition have been detected, the  
7 resource detection mechanism further detecting when at least one required resource for a  
8 selected logical partition is not powered up and initiating power up of the at least one  
9 required resource that is not powered up, the resource detection mechanism initiating  
10 power off of a plurality of resources owned by the selected logical partition in response to  
11 the selected logical partition being powered off; and  
12 (B) recordable computer readable signal bearing media bearing the resource  
13 detection mechanism.

1 45. (Cancelled)

1 46. (Cancelled)

1 47. (Original) The program product of claim 44 wherein the resources include at least  
2 one hardware resource.

1 48. (Original) The program product of claim 44 wherein the resources include at least  
2 one software resource.